#2

OIPE

RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/10/005,907 TIME: 14:16:02

Input Set : A:\ES.txt

Output Set: N:\CRF3\12112001\1005907.raw



•		<11					ion	Chim	ique	Bel	ge,	S.A.					<b>=</b> []`				
	4				, Ka																
	5					Greg	_		•												
	6	-10					hard		<b>017</b> 07	CITIA	TO 3	aaoa	***	D 1371	TITT 3.	rron	a T A	mon	Danuarma	- 1 / T m 1 /	2 1775
маст			0> T	LTLE	OF.	INVE:	NT TO	N: N	OAET	GEN	ES A	SSUC	IATE	D WI.	IH A.	LLER	GIC	HYPE	RSENSIT	LATTA	AND
MAST	OE:	-	7	0m T 1 7	3 M T ()	<b>.</b> 7										•					
	_				ATIO:		π. ·Λ	E2E2	0-50	Λ Ε											
<i>a &gt;</i>							E: 0				a /1 0	/00E	007								
C>												/005	, 907								
C/										-12-	0 /										
	13 <160> NUMBER OF SEQ ID NOS: 13 15 <170> SOFTWARE: PatentIn version 3.1																				
	17 <210> SEQ ID NO: 1																				
	17 <2105 SEQ 1D NO: 1 18 <2115 LENGTH: 3762																				
			2> T			702															
						Home	o sa	nien	c												
			0> F			110111	o bu	PICI	_												
			1> N			CDS															
							) (-	4321											•		
						-	TION														
			0> S																		
							ga a	aaq a	atq	qqa a	aat	tat (	ctc (	ctq	cqa a	aaa o	ctc		51		
	30	, ,		-	-	-	-						Leu I								
	31								1	•		_	5			-					
	33	agt	tgc	ctg	gga	gag	aat	caa	aag	aag	ccc	aag	aaa	gga	aac	cca	gat		99		
	34	Ser	Cys	Leu	Gly	Glu	Asn	Gln	Lys	Lys	Pro	Lys	Lys	Gly	Asn	Pro	Asp				
	35	10		•			15					20					25				
	37	gag	gaa	aga	aaa	cgg	cag	gaa	atg	act	aca	ttt	.gaa	aga	aaa	ctt	caa		147		
	38	Glu	Glu	Arg	Lys	Arg	Gln	Glu	Met	Thr	Thr	Phe	Glu	Arg	Lys	Leu	Gln				
	39					30					35					40					
													act						195		
		Asp	Gln	Asp	_	Lys	Ser	Gln	Glu		Ser	Ser	Thr	Ser		Gln	Glu				
	43				45					50					55						
													tac						243		
		Asn	Glu		Gly	Ser	Gly	Ser		Glu	Val	Cys	Tyr		Val	Ile	Asn				
	47			60					65					70							
													aat						291		
		HIS		Pro	His	GIn	Arg		Ser	Leu	Ser	Ser	Asn	Asp	Asp	GIA	Tyr				
	51		75					80					85						220		
													cag						339		
	55		ASII	тте	ASP	ser		THE	Arg	гàг	Val	_	Gln	Pne	Arg	GIU	_				
			~~~		~~~		95	a++	a++	~~~	- a+	100	~++	~~+		a a t	105		207	,	
													gtt						387 .		
	59	oer.	GIU	TIII	GIU	110	HIG	neu	ьеи	Arg	115	26T	Val	Set.	Arg	120	Cys				
		tcc	tac	acc	cat		cat	aat	tat	ma a		ata	ttt	CC2	cac				432		
													Phe			Lua			734		
	63	501	Cy 3	T 11T	125	JIU	1113	usb	- A -	130	Vul	, 41	F 11G	110	135						
										- 50											





RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/10/005,907 TIME: 14:16:02

Input Set : A:\ES.txt

Output Set: N:\CRF3\12112001\I005907.raw

65	aatootoaao	otaatttata	accttccagc	22+4224242	atananaata	aceaeatata	492
			cagtgcatga				552
			taggcaactc				612
			tgacctaaaa				672
	_	•	_	_		aaaataaatt	732
			gaatggaccc				792
			catgatagga				852
					_	-	912
	_		acaagtgacc			-	972
			ccaattccaa	-		-	1032
			ctttgtctac				
	_	_	ttttctactg	-	_	_	1092
		_	agacaaactt	_		_	1152
			tttaagctga				1212
			gtctccctaa				1272
			gacctcctga				1332
			taaatatttt			_	1392
		-	gaatcttcaa	_	_	_	1452
			acctatttca		-	_	1512
			_	_		ttcttttct	1572
		_	_			atagtttttg	1632
						gatgaaatga	1692
						aggattctgt	1752
						aacacactag	1812
						. ctggttttaa	1872
113	aattcaagca	ı aactggaaaa	taatccatct	. aattatgctt	tctttcccaa	gaagttttt	1932
115	aatgatatgo	c cagcttccta	ı atttggagac	: aaaagcctta	ı attgacaatg	cattcattat	1992
117	atatttttt	: gtatagttac	c agtatacgag	ttgagtatco	cttagatgag	atgcttggga	2052
119	ccagaagtgt	: tttggatttc	agatttattt	. ttggattttg	gaatatttcc	atacatataa	2112
121	tgagagagtt	ggaaaatggg	, attcaagtct	aatcataaaa	ttcacttatg	tttgatatac	2172
123	accttatctg	, aatagcctga	ı aggtaatttt	atacaatatt	: ttaaataatt	ttatgcctga	2232
125	aacagagttt	gegeacattg	, gaccatcaga	aagcagaagt	gtcactattt	caagtcagtg	2292
127	ctcaaaaagt	: ttcagatgtt	: aagctggtga	tgcagttcat	gccagtgato	cgagtacttt	2352
129	gggaagccaa	gacaggtgga	tctcttgagc	ccaggagttt	gaggccagac	tgcacaacac	2412
131	agtgagacct	cgtttctaca	aataattaaa	aaattagcca	ggtgtggtgg	tgcacacctg	2472
133	tagtcccagg	tactcaggag	gctgaggtag	taggattgtt	: tgagactggg	aggttgaggc	2532
135	tgaactgago	caggatettg	ccaccacatt	ccagcttggg	caacagagtg	agaccctgtc	2592
137	tcaaaaaaaa	aaaaaagttt	. cagattttgg	agcatttcag	atcttcagat	tagggatttt	2652
						ctccagataa	2712
141	ctcatttgct	gtatacacat	tttgcctctc	tattcaacga	attettatge	cctcttgtgg	2772
143	tgattttaat	. gtgcggaagg	gaaacaatag	aaattttgca	attctagaaa	agtcattctg	2832
						aattttttac	2892
						taaaattaat	2952
			-		_	ttaataaaca	3012
						ggtggttcac	3072
						aagcaggatt	3132
	_				_	tgtataagtg	3192
						ttgaacattt	3252
						gaaaatgtaa	3312
						tagtcacctc	3372
	- ,		,				–



RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/10/005,907 TIME: 14:16:02

Input Set : A:\ES.txt

Output Set: N:\CRF3\12112001\1005907.raw

165 167 169 171 173 175	cttatgaaga gacagaacac gtacatcctc ccagaaagtt ccacagtgct ccttttcct gagtttcacc agtcctggca accaatgate tgcttcgtat aattataact gttctagata tttgtagcaa tgtacccttt ccatattat tttgtgtgtg taaggcttct tttagtcatt gataatatttt tgagattcat ctatgtttaa tgttctatca gtagttgtac atcttacttg tctcagcata tcaccatata gatatactat aatttgttaa tctaatcact gatggatatg taggatattt aagtttttga cattatgaat aaagtggcta taaatgaaaa aaaaaaaaaa											
	<211> LENGTH: 133 <212> TYPE: PRT											
	<213> ORGANISM: Homo sapiens											
	3 <400> SEQUENCE: 2											
	Met Gly Asn Tyr Leu Leu Arg Lys Leu Ser Cys Leu Gly Glu Asn Gln											
186												
189	Lys Lys Pro Lys Lys Gly Asn Pro Asp Glu Glu Arg Lys Arg Gln Glu											
190												
	Met Thr Thr Phe Glu Arg Lys Leu Gln Asp Gln Asp Lys Lys Ser Gln											
194												
	Glu Val Ser Ser Thr Ser Asn Glu Asn Glu Asn Gly Ser Gly Ser											
198												
201	Glu Glu Val Cys Tyr Thr Val Ile Asn His Ile Pro His Gln Arg Ser  65 70 75 80											
	Ser Leu Ser Ser Asn Asp Asp Gly Tyr Glu Asn Ile Asp Ser Leu Thr											
206												
	Arg Lys Val Arg Gln Phe Arg Glu Arg Ser Glu Thr Glu Tyr Ala Leu											
210												
213	Leu Arg Thr Ser Val Ser Arg Pro Cys Ser Cys Thr His Glu His Asp											
214	115 120 125											
	Tyr Glu Val Val Phe Pro His											
218												
	<210> SEQ ID NO: 3											
	<211> LENGTH: 3663											
	<212> TYPE: DNA											
	<213> ORGANISM: Homo sapiens <220> FEATURE:											
	<221> NAME/KEY: CDS											
	<222> LOCATION: (294)(746)											
	<223> OTHER INFORMATION: First ORF											
	<220> FEATURE:											
233	<221> NAME/KEY: CDS											
	<222> LOCATION: (1238)(2218)											
	<223> OTHER INFORMATION: Second ORF											
	<400> SEQUENCE: 3											
		50										
	caggatctga gtgatgagac gtgtccccac tgaggtgccc cacagcagca ggtgttgagc 12											
	atgggetgag aagetggaee ggeaecaaag ggetggeaga aatgggegee tggetgatte 18 etaggeagtt ggeggeagea aggaggagag geegeagett etggageaga geegagaega 24											
	ageagttetg gagtgeetga acggeecect gageectace egeetggeec act atg 29											
248	Met											





## RAW SEQUENCE LISTING PATENT APPLICATION: US/10/005,907 DATE: 12/12/2001 TIME: 14:16:02

Input Set : A:\ES.txt

Output Set: N:\CRF3\12112001\1005907.raw

249																1	
								cgc									344
	Val	Gln	Arg	Leu	Trp	Val	Ser	Arg		Leu	Arg	His	Arg	_	Ala	Gln	
253				5					10					15			
								acc									392
	Leu	Leu	Leu	Val	Asn	Leu	Leu	Thr	Phe	Gly	Leu	Glu	Val	Cys	Leu	Ala	
257			20					25					30				
								cct									440
	Ala		Ile	Thr	Tyr	Val		Pro	Leu	Leu	Leu		Val	Gly	Val	Glu	
261		35					40					45					
								ctg									488
		Lys	Phe	Met	Thr		Val	Leu	Gly	Glu		Leu	His	Pro	Pro		
265						55					60					65	
								acc									536
268	Phe	Leu	Phe	Gln	Ile	His	Ala	Thr	$\mathtt{Trp}$	His	Val	Gly	Gln	Glu	Tyr	Leu	
269					70					75					80		
								gga									584
272	Cys	Pro	Gly	Ser	Cys	Leu	Glu	Gly	Glu	Val	Val	Cys	Trp	Glu	Gly	Ile	
273				85					90					95			
								ggg									632
276	Ala	Gly	Gln	Glu	Gly	Asp	Pro	Gly	Leu	Arg	Gly	His	Thr	Lys	Arg	Lys	
277			100					105					110				
279	aag	aga	ata	cca	agg	aca	tac	CCC	agt	cac	ctc	tgg	atc	cct	ggt	cct	680
280	Lys	Arg	Ile	Pro	Arg	Thr	Tyr	Pro	Ser	His	Leu	Trp	Ile	Pro	Gly	Pro	
281		115					120					125					
	-	_	_	_	-			aga			_	•	_				728
		Gln	Ser	Leu	Ala	His	Arg	Arg	His	Trp	Arg	Asn	Ala	Pro	Asn	Leu	
285	130					135					140					145	
			_			taa	ttta	atago	cga t	tato	ctcat	it ta	atgo	cttac	2		776
	Trp	Leu	Ala	Leu													
289					150												
					_			_	_		-		-			ggttag	836
																aggtc	896
																cagata	956
																cccca	1016
																acgctg	1076
						-	-	_	-	-				-	_	ccatgc	1136
		_			_			-	-		_					caaatt	1196
	acag	gcato	ccc 1	tgtga	agad	g ta	igcad	cagto	j teg	gagta	ıcgg		-			ca tcc	1252
306												Me	et Le	eu Ph	ne Pi	o Ser	
307																155	
								ctt									1300
	Phe	Ser	Arg	Ser		Val	Pro	Leu	Pro		Ala	Leu	Tyr	Leu	Ser	Gln	
311					160					165					170		
								ctt									1348
	Pro	Leu	Thr		Thr	Thr	Ser	Leu		Ala	Gly	Ile	Gly		Val	Leu	
315				175					180					185			
								cta									1396
318	Gly	Leu	Val	Cys	Val	Pro	Leu	Leu	Gly	Ser	Ala	Ser	Asp	His	Trp	Arg	



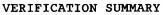
RAW SEQUENCE LISTING

DATE: 12/12/2001 PATENT APPLICATION: US/10/005,907 TIME: 14:16:02

Input Set : A:\ES.txt

Output Set: N:\CRF3\12112001\I005907.raw

319			190					195					200				
321	gga	cgc.	tat	ggc	cgc	cgc	cgg	ccc	ttc	atc	tgg	gca	ctg	tcc	ttg	ggc	1444
322	Gly	Arg	Tyr	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Trp	Ala	Leu	Ser	Leu	Gly	
323		205					210					215					
325	atc	ctg	ctg	agc	ctc	ttt	ctc	atc	cca	agg	gcc	ggc	tgg	cta	gca	ggg	1492
326	Ile	Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	Gly	${\tt Trp}$	Leu	Ala	Gly	
327	220					225		•			230					235	
329	ctg	ctg	tgc	ccg	gat	ccc	agg	ccc	ctg	gag	ctg	gca	ctg	ctc	atc	ctg	1540
330	Leu	Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Leu	Ile	Leu	
331					240					245					250		
333	ggc	gtg	ggg	ctg	ctg	gac	ttc	tgt	ggc	cag	gtg	tgc	ttc	act	cca	ctg	1588
334	Gly	Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	
335	_			255					260					265			
337	gag	gcc	ctg	ctc	tct	gac	ctc	ttc	cgg	gac	ccg	gac	cac	tgt	cgc	cag	1636
338	Glu	Āla	Leu	Leu	Ser	Asp	Leu	Phe	Arg	Asp	Pro	Asp	His	Cys	Arg	Gln	
339			270					275					280				
341	gcc	tac	tct	gtc	tat	gcc	ttc	atg	atc	agt	ctt	ggg	ggc	tgc	ctg	ggc	1684
342	Āla	Tyr	Ser	Val	Tyr	Ala	Phe	Met	Ile	Ser	Leu	Gly	Gly	Cys	Leu	Gly	
343		285					290					295					
345	tac	ctc	ctg	cct	gcc	att	gac	tgg	gac	acc	agt	gcc	ctg	gcc	ccc	tac	1732
346	Tyr	Leu	Leu	Pro	Ala	Ile	Asp	Trp	Asp	Thr	Ser	Ala	Leu	Ala	Pro	Tyr	
347	300					305					310					315	
349	ctg	ggc	acc	cag	gag	gag	tgc	ctc	ttt	ggc	ctg	ctc	acc	ctc	atc	ttc	1780
350	Leu	Gly	Thr	Gln	Glu	Glu	Cys	Leu	Phe	Gly	Leu	Leu	Thr	Leu	Ile	Phe	
351					320					325					330		•
353	ctc	acc	tgc	gta	gca	gcc	aca	ctg	ctg	gtg	gct	gag	gag	gca	gcg	ctg	1828
354	Leu	Thr	Cys	Val	Ala	Ala	Thr	Leu	Leu	Val	Ala	Glu	Glu	Ala	Ala	Leu	
355				335					340					345			
357	ggc	ccc	acc	gag	cca	gca	gaa	ggg	ctg	tcg	gcc	ccc	tcc	ttg	tcg	ccc	1876
358	Gly	Pro	Thr	Glu	Pro	Ala	Glu	Gly	Leu	Ser	Ala	Pro	Ser	Leu	Ser	Pro	
359			350					355					360				
361	cac	tgc	tgt	cca	tgc	cag	gcc	cta	agc	ctg	gag	ctc	cct	tcc	cta	atg	1924
362	His	Cys	Cys	Pro	Cys	Gln	Ala	Leu	Ser	Leu	Glu	Leu	${\tt Pro}$	Ser	Leu	Met	
363		365					370					375					
365	gac	acg	tgg	gtg	ctg	gag	gca	gtg	gcc	tgc	tcc	cac	ctc	cac	ccg	cgc	1972
366	Asp	Thr	Trp	Val	Leu	Glu	Ala	Val	Ala	Cys	Ser	His	Leu	His	Pro	Arg	
367	380					385					390					395	
														tgg			2020
370	Ser	Ala	Gly	Pro	Leu	Pro	Val	Met	Ser	Pro	Tyr	Val	${\tt Trp}$	Trp	$\mathtt{Trp}$	Val	
371					400					405					410		
														gcc			2068
374	Ser	Pro	Pro	Arg	Pro	Gly	Trp	Phe	Arg	Ala	Gly	Ala	Ser	Ala	${\tt Trp}$	Thr	
375				415					420					425			
														ccc			2116
	Ser	Pro	Ser	Trp	Ile	Val	Pro	Ser	Cys	Cys	Pro	Arg		Pro	His	Pro	
379			430					435					440				
														ctg			2164
	Cys		Trp	Ala	Pro	Leu		Ser	Ser	Ala	Ser	Leu	Ser	Leu	Pro	Ile	
383		445					450					455					



PATENT APPLICATION: US/10/005,907

DATE: 12/12/2001

TIME: 14:16:03

Input Set : A:\ES.txt

Output Set: N:\CRF3\12112001\I005907.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date